EXPRESS EV405246117US

PATENT COOPERATION TREATY

THOMSON multimedia RECEIVED

26. Jan. 2005 Patent Department dministration-Hannover

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

THIES, Stephan Deutsche Thomson-Brandt GmbH **European Patent Operations** Karl-Wiechert-Allee 74 30625 Hannover **ALLEMAGNE** 

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

IMPORTANT NOTIFICATION

Date of mailing

(day/month/year)

25.01.2005

Applicant's or agent's file reference

International application No.

PD020113 V

06.12.2003

PCT/EP 03/13837

Priority date (day/month/year)

20.12.2002

Applicant

THOMSON LICENSING S.A. ET AL.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.

International filing date (day/month/year)

Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

**Authorized Officer** 

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### PATENT COOPERATION TREATY

### **PCT**

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD020113 International application No. PCT/EP 03/13837			ent's file reference	FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
				International filing date (day/month/year) 06.12.2003		<i>ar)</i> Pric	Priority date (day/month/year) 20.12.2002	
Inter		al Pate		oth national classification and	IPC		12.2002	
	icant OMSC	ON LI	CENSING S.A. ET A	L.				
1.	<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>							
2.	This	REP	ORT consists of a total of	of 4 sheets, including this	cover sh	eet.		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of 2 sheets.							
3.	This	repo	rt contains indications re	elating to the following item	s:			
	ł	$\boxtimes$	Basis of the opinion					
	11		Priority					
	Ш		. *	opinion with regard to nov	elty, inve	ntive step and in	dustrial applicability	
	IV		Lack of unity of invent					
	V	$\boxtimes$		under Rule 66.2(a)(ii) with ions supporting such state		novelty, inventi	ve step or industrial a	pplicability;
	VI		Certain documents cit	ed				
	VII			international application				
	VIII		Certain observations of	on the international applica	tion			
Date	of sub	missio	on of the demand	C	ate of cor	npletion of this rep	ort	
15.07.2004			2	5.01.20	05			
Name and mailing address of the international				nal A	Authorized Officer			
preliminary examining authority:  ———— European Patent Office							•	Joseph M &
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				56 enmu d	amp, S			9)))
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13837

l. Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-10	0	as originally filed					
	Cla	ims, Numbers						
1-8			received on 28.10.2004 with letter of 22.10.2004					
	Dra	wings, Sheets						
1/2-2/2			as originally filed					
2.			age, all the elements marked above were available or furnished to this Authority in ternational application was filed, unless otherwise indicated under this item.	the				
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.			eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclose pplication as filed has been furnished.	ure				
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written seque ished.	nce				
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13837

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they hav	/e
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).	

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-8

1. Statement

Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims 1-8

No: Claims

Industrial applicability (IA) Yes: Claims 1-8

No: Claims

2. Citations and explanations

see separate sheet

#### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP-A-0 986 057 (SEIKO INSTR INC) 15 March 2000 (2000-03-15)

D2: US 2001/026422 A1 (NISHIMOTO HIDEKI) 4 October 2001 (2001-10-04)

D3: EP-A-0 501 477 (SHARP KK) 2 September 1992 (1992-09-02)

D4: US-A-5 508 857 (HORITA MASAMI) 16 April 1996 (1996-04-16)

The documents D1 - D4 describe a slider-loading mechanism according to the preamble of claim 1.

Different solutions for activating the lever are shown, e.g. a magnetic swing (D4), a spring loaded lever (D2) or other mechanical swinging (D3); D1 does not describe a specific lever realization.

The present application seeks to realize an alternative lever mechanism.

This is performed by a lever actuated via a gear mechanism which is driven by a loading pin when a rack is moved.

No hint can be found in the documents of the SR for this realization. Moreover, this solution seems not to be obvious in view of the general knowledge of the skilled man. Consequently, the present claim 1 as well as the dependent claims are considered to be new and to be based on an inventive step.





## - 11JE09 Rec'd PCT/PTO 14 JUN 2005

#### Patent Claims

- A slider-loading mechanism for an optical drive, having a slider (2) which is fastened on a resilient arm (6) and is lowered onto the surface of an optical storage medium (8) and/or raised from the surface of the optical storage medium (8), and a loading element (1) separate from the resilient arm (6), the loading element (1) penetrating between the surface of the optical storage medium (8) and the resilient arm (6) and being actuated via a lever (3) for acting on the resilient arm (6) to lower and/or raise the slider (2), characterized in that the lever (3) is actuated via a gear mechanism (5, 7) having a loading pin (7), which is provided with a gearwheel, and a rack (5), which is arranged in a displaceable manner and interacts with the gearwheel of the loading pin (7).
- 2. The slider-loading mechanism as claimed in claim 1, characterized in that a linear drive is provided for the rack (5).
- The slider-loading mechanism as claimed in claim 2, characterized in that the gearwheel of the loading pin (7) is actuated by moving the rack (5) relative to the gearwheel with the linear drive.
- 4. The slider-loading mechanism as claimed in one of claims 1 - 3, characterized in that the gearwheel of the loading pin (7) is actuated by moving the gearwheel relative to the rack (5) using a rough tracking function.
- The slider-loading mechanism as claimed in one of claims 5. 1 - 4, characterized in that it further includes displacement stops for the rack (5) for ensuring that the slider (2) is always lowered and/or raised in a reading/writing region of the storage medium (8).





- EP08138374
- 6. The slider-loading mechanism as claimed in one of claims 1 5, characterized in that in the lowered position the resilient arm (6) is not in contact with the loading element (1).
- 7. The slider-loading mechanism as claimed in one of claims 1 6, characterized in that it further includes an adjusting means for adjusting the prestressing of the resilient arm (6).
- 8. A unit for reading from and/or writing to optical recording media, characterized in that it has a slider-loading mechanism as claimed in one of claims 1 7.